

# Shamak Dutta

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GitHub/shamak • LinkedIn/shamakdutta • DevPost/shamak

<https://shamak.github.io/>

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## Technical Skills

**Languages:** Python > Java > Ruby > C++ > PHP

**Misc:** Elasticsearch, MySQL, Rails, Django, Android, Matlab, Theano, scikit-learn

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## Research & Work Experience

**A9**

**Palo Alto, CA**

*Software Engineer, Advertising Technology*

*January 2016 - present*

- Working with terabytes of data in Pig, Hadoop, Elasticsearch, AWS

**Research Assistant, Deep Learning & Neural Networks**

**Waterloo, ON**

*Supervisor: H.R Tizhoosh, University of Waterloo*

*September 2015 - December 2015*

**Lookout**

**San Francisco, CA**

*Software Engineer, Security & Infrastructure*

*May 2015 - August 2015*

- Shipped a review system for a rules engine used to automatically triage malicious apps
- Co-developed a search parser (text to Lucene to Elasticsearch), 30 million data points
- Won a hackathon by developing a scoring algorithm to gamify code reviews with leaderboards; Processed thousands of code reviews, displayed relevant metrics

**Avvasi**

**Waterloo, ON**

*Software Engineer, Platform*

*September 2014 - December 2014*

- Independently shipped a network testing framework using Python with a heavy emphasis on concurrency and parallelisation automating production workflow

**Achievers**

**Toronto, ON**

*Software Developer*

*January 2014 - April 2014*

- Shipped several internal tools used by the client services and marketing teams
  - Developed cron jobs for an email notification system for thousands of users in PHP
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## Projects

- Search & recommendation engine on **PianoShelf**, ~4000 users, ~2500 sheet music
  - **Android app** for requesting/posting carpool rides; Won an award at hackWaterloo
  - **Android app** simplifying event scheduling between friends developed at HackTheNorth
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## Education

**University of Waterloo**

**Waterloo, ON**

*Candidate for Bachelors of Computer Engineering*

*September 2012 - Present*